We Claim:

1. A user-defined tunable, comprising:

a tunable name;

an assigned value; and

- expressions that relate one or more kernel tunables to the user-defined tunable, each of the kernel tunables having a parameter value defined by an expression, wherein a change to the assigned value of the user-defined tunable changes the parameter value of each of the kernel tunables.
- 2. The user-defined tunable of claim 1, wherein the user-defined tunable is applied to a UNIX® operating system, and wherein the user-defined tunable is created by an administrator of the operating system.
 - 3. The user-defined tunable of claim 1, wherein the expression relating the user-defined tunable to the one or more kernel tunables is of the form of an arithmetic expression involving integers and other tunable names.
- 15 4. The user-defined tunable of claim 3 wherein the arithmetic expression is: ktunable=utunable*M+N, wherein M and N are integers.
 - 5. The user-defined tunable of claim 1, wherein the user-defined tunable is changed using kernel configuration tools.
- 6. The user-defined tunable of claim 1, wherein the assigned value and the expression use C programming syntax, and wherein the assigned value may in one of decimal, octal, or hexadecimal format.
 - 7. The user-defined tunable of claim 1, wherein the user-defined tunable may be deleted.
- 8. An apparatus that provides user-defined tunables for use in a UNIX® operating system, comprising:

a system administrator interface, comprising:

a user-defined tunable creation option, and

a system administrator controlled value assignment option;

a tunable repository that stores the user-defined tunables;

- kernel configuration tools that read the user-defined tunables from the tunable repository and relate the user-defined tunables to a kernel in the UNIX® operating system.
 - 9. The apparatus of claim 8, wherein the kernel comprises kernel tunables, and wherein the system administrator interface further comprises means to change values assigned to kernel tunables.

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- 10. The apparatus of claim 9, wherein the means to change values assigned to the kernel tunables comprises an option that allows a system administrator to modify an integer value assigned to a kernel tunable.
- 11. The apparatus of claim 9, wherein a kernel tunable is related to a user-defined tunable by an expression, and wherein the means for changing values assigned to kernel modules comprises an option wherein a system administrator changes the expression relating the kernel tunable and the user-defined tunable.
 - 12. The apparatus of claim 8, further comprising means for deleting user-defined tunables from the UNIX® operating system.
- 10 13. The apparatus of claim 8, further comprising means for listing one or more kernel tunables and user-defined tunables.
 - 14. The apparatus of claim 13, wherein the means for listing comprises a verbose option, wherein a complete description of the kernel tunables is presented.
 - 15. The apparatus of claim 8, further comprising a hold option, wherein a user-defined tunable is held until a next boot of the UNIX® operating system.
 - 16. A method for implementing user-defined tunables in a UNIX® operating system, comprising:

creating a user-defined tunable; and

using an expression, relating the user-defined tunable to one or more kernel tunables.

- 17. The method of claim 16, further comprising modifying a value of the user-defined tunable, wherein values of the one or more related kernel tunables are changed.
- 18. The method of claim 16, further comprising modifying the expression relating the user-defined tunable and the one or more kernel tunables, wherein modifying the expression changes values of the one or more kernel tunables.
- 19. A computer-readable medium having code to implement user-defined tunables in a UNIX® operating system, the code when implemented allowing performance of the following steps:

creating a user-defined tunable; and

- using an expression, relating the user-defined tunable to one or more kernel tunables.
 - 20. The computer-readable medium of claim 19, wherein the code when implemented allows performance of the additional step of modifying the expression relating the user-

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defined tunable and the one or more kernel tunables, wherein modifying the expression changes values of the one or more kernel tunables.